

**ABSTRACT OF THE DISCLOSURE****METHOD AND SYSTEM FOR ACCURATELY DETERMINING A DEVICE LOCATION IN AN ARBITRATED LOOP**

5 A method for accurately determining a device location in an arbitrated loop having a number of devices and at least one initiator, where each of the devices has a port bypass circuit associated with it. The method includes enabling the port bypass circuits and initializing the arbitrated loop to determine the initiator's enhanced logical address. Next, a port bypass circuit associated with a selected device is disabled and a unique identifier that, in an advantageous embodiment, is a world wide unique address (WWID) of the device and a physical slot location of the selected device is determined. The unique identifier and the physical slot location of the selected device is saved, preferably in a first Table and the port bypass circuit associated with the selected device is enabled. A unique identifier and physical slot location is determined in the above described manner for each of the devices located on the arbitrated loop. Following the determination of the unique identifiers and physical slot locations of all the devices on the loop, the port bypass circuits are disabled and a loop initialization of the arbitrated loop is initiated to determine a unique identifier for each of the plurality of devices. Next, the unique identifiers determined in the loop initialization is mapped with the unique identifiers associated with physical slot locations saved in the first Table to accurately identify the physical slot location of each of the devices.

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